

Claims

1. A composite article comprising a silicone rubber matrix reinforced with polyaramid textile wherein said polyaramid textile is bonded to said silicone rubber by means of a bonding composition comprising an acryloxy organosilane.
- 5 2. A composite article according to claim 1 in which said polyaramid is activated with an epoxy compound.
3. A composite article according to claim 1 in which the polyaramid is a p-phenylene polyaramid.
4. A composite article according to claim 1 in which said bonding composition further comprises an epoxy organosilane.
- 10 5. A composite article according to claim 4 in which said bonding composition further comprises a vinyl organosilane.
6. A composite article according to claim 1 in which said organosilane is a trimethoxy silane.
- 15 7. A composite article according to claim 1 in which said polyaramid textile comprises polyaramid single end or cabled cords.
8. A composite article according to claim 1 in which said polyaramid textile is a weft insertion warp knit fabric having polyaramid weft and/or warp yarns.
9. A process for manufacturing an polyaramid reinforced silicone rubber article
20 comprising the steps of:
 - a) Selecting a polyaramid textile,

- b) Optionally activating the polyaramid textile with an epoxy compound, and/or optionally activating the polyaramid textile with a plasma,
 - c) Dipping the polyaramid textile into an organosilane dip comprising acryloxy organosilane, and
- 5 d) Bonding the dipped polyaramid textile to silicone rubber.
10. A process according to claim 9 wherein said organosilane dip further comprises an epoxy organosilane.
11. A process according to claim 9 wherein said organosilane dip is an aqueous dip.
- 10 12. A process according to claim 9 in which epoxy activation is followed by plasma activation, which is, in turn, followed by the organosilane dipping step.
13. A process according to claim 12 in which said plasma activation comprises an air plasma.
14. A process according to claim 13 in which said plasma activation comprises an air plasma further including water as an aerosol.
- 15 15. A process according to claim 9 in which said organosilane dip further comprises an amino functional organosilane.